



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)

BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA

PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/pera/

Wausau Window and Wall Systems

7800 International Drive

Wausau, WI 54401

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "3250 HP" Inswing Aluminum Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1086, titled "Series 3250 HP" Inswing Casement Window (Large Missile Impact), sheets 1 through 4, dated January 14, 2002, with revision "B1", dated May 19, 2011, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated June 5, 2012, signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series and following statement: "Miami-Dade County Product Control Approved" unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA No. 07-0719.01 and consists of this page 1, evidence page E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. Gascon
6/6/12

NOA No. 12-0416.06

Expiration Date: April 25, 2017

Approval Date: June 14, 2012

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1086**, titled "Series 3250 HP" Inswing Casement Window (Large Missile Impact), sheets 1 through 4, dated January 14, 2002, with revision "**B1**", dated May 19, 2011, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated June 5, 2012, signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Small Missile Impact Test per FBC, TAS 201-94
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 7) Forced Entry Test, per ASTM F 588-07 (Grade 10), FBC 2411 3.2.1, and TAS 202-94

along with marked-up drawings and installation diagram of aluminum casement and fixed window, prepared by Quast Consulting & Testing, Inc., Test Reports No. **QCT11-2310.01** for specimen 1 and 2, dated 02/20/12, signed and sealed by Brian M. Sasman, P. E.

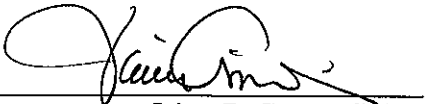
2. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94

along with marked-up drawings and installation diagram of 6 specimens each consisting of three-panel configuration of aluminum fixed and casement windows, each 146" wide and 72" high, prepared by Architectural Testing, Inc., Test Report No. **ATI-06-30280.01**, dated January 22, 2002, signed and sealed by Allen N. Reeves, P.E. With addendum letter dated March 6, 2002, signed and sealed by Allen N. Reeves, P.E.

(Submitted under previous NOA# 05-0915.04)

3. Laboratory revision letter for Test Report No. **ATI-06-30280.01**, dated March 06, 2002, signed and sealed by Allen N. Reeves, P.E.

(Submitted under previous NOA# 05-0915.04)



Jaime D. Gascon, P.E.
Product Control Section Supervisor

NOA No. 12-0416.06

Expiration Date: April 25, 2017

Approval Date: June 14, 2012

Wausau Window and Wall Systems

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, dated 01/21/02, revised 04/02/12, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P. E.
2. **Complies with ASTM E1300-04**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **08-0508.02** issued to **Viracon, Inc.** for their "**StormGuard Glass Interlayer**", dated 07/03/08, expiring on 04/14/13.

F. STATEMENTS

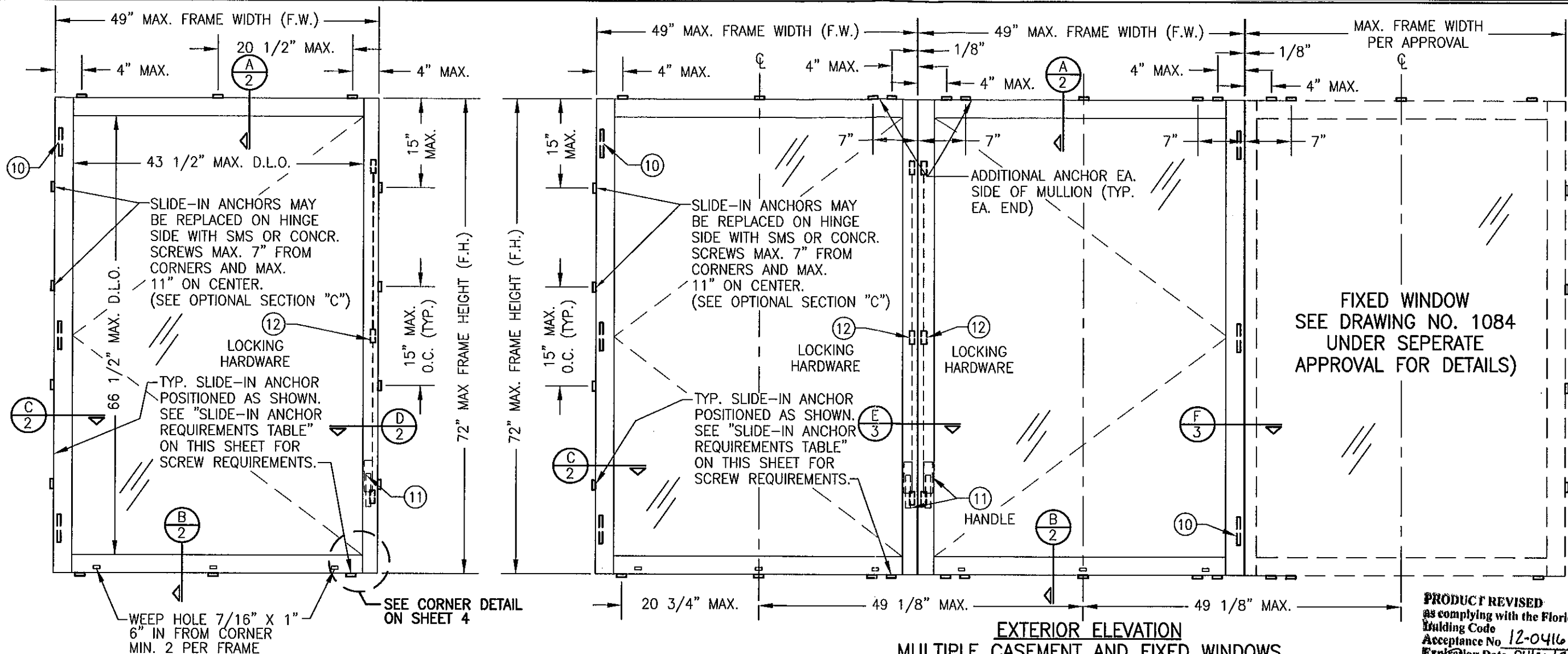
1. Statement letter of no financial interest, conformance and compliance with the **FBC-2010**, dated 04/04/12, signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of no financial interest issued by W. W. Schaefer Engineering & Consulting, P.A., dated January 29, 2002, signed and sealed by Warren W. Schaefer, P.E. (*Submitted under NOA# 05-0915.05*)
3. Laboratory compliance letter for Test Report No. **ATI-06-30280.01**, dated January 28, 2002, signed and sealed by Allen N. Reeves, P.E. (*Submitted under previous NOA# 05-0915.04*)

G. OTHERS

1. Notice of Acceptance No. **07-0719.01**, issued to Wausau Window and Wall Systems for their "Series 3250 HP" Inswing Casement Window (Large Missile Impact)", approved on 08/09/07 and expiring on 04/25/12.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 12-0416.06
Expiration Date: April 25, 2017
Approval Date: June 14, 2012



EXTERIOR ELEVATION
SINGLE OPERABLE CASEMENT WINDOW
SCALE: 3/4"=1'-0"

ALLOWABLE DESIGN LOAD	
POSITIVE	NEGATIVE
80 PSF	90 PSF

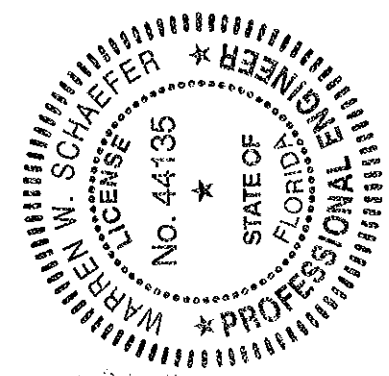
EXTERIOR ELEVATION
MULTIPLE CASEMENT AND FIXED WINDOWS
(MORE THAN THREE WINDOWS MAY BE COMBINED HORIZONTALLY)
SEE SINGLE CASEMENT WINDOW ELEVATION FOR DETAILS
SCALE: 3/4"=1'-0"

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0416-06
Expiration Date 04/25/2017
By *[Signature]*
Miami Dade Product Control

NOTE: WHEN DIRECT MOUNTING TO A BLOCK/
CONCRETE OPENING WITH CONCR. SCREWS,
THE HEAD & SILL MUST BE CONCRETE,
THE SIDES MAY BE BLOCK OR CONCRETE.

- GENERAL NOTES:**
1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
 2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
 3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
 4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
 5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
 6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
 7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
 8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
 9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
 10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

SLIDE-IN ANCHOR FASTENER REQUIREMENTS TABLE				
OPENING TYPE (SUBSTRATE)	ANCHOR TO OPENING FASTENER TYPE	NO. FASTENERS PER ANCHOR INTO SUBSTRATE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	2	1 3/8"	1"
MIN. 16 GA. 33 KSI METAL STUD	1/4" SELF TAP/DRILLING SCREW	2	FULL	1/2"
MIN. 12 GAGE A36 STEEL	1/4" SELF TAP/DRILLING SCREW	2	FULL	1/2"
(2) MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	2	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	2	1 1/2"	2"
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).				
(2) CMU IS APPLICABLE AT SIDES ONLY.				



DRAWN BY: J.C.F.		CHECKED BY: W.W.S.	
PLOT: 1-16		DATE: 01/14/02	
NO.	REVISION DESCRIPTION	DATE	BY
A1	UPDATE GENERAL NOTES TO 2004 CODE COMPLIANT	08/10/05	K.P.S.
A2	ADDED MULLION END ANCHORS & REDUCED FRAME ANCHOR SPACING TO 15"	08/10/05	K.P.S.
B1	UPDATE PER CURRENT STANDARDS	05/19/11	W.R.M.

DRAWING TITLE
3250 HP INSWING CASEMENT WINDOW (LARGE MISSILE IMPACT)

MANUFACTURER
WAUSAU WINDOW & WALL SYSTEMS
7800 INTERNATIONAL DRIVE
WAUSAU, WI. 54401
715-845-2161

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
JUN 05 2012
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO.
1086

REV.
B

SHEET NO.
1 OF 4

SEALANT BY OTHERS

1

9

22

7 REF. SHEET 1 ELEVATIONS FOR ANCHOR POSITIONS

14

13

3 4 5

23

1/4" MAX. SHIM

SEE "GLAZING DETAILS" ON SHEET 3 FOR DETAIL

EXTERIOR

SCALE: 1/2 FULL (2)

SCALE: 1/2 FULL (2)

SCALE: 1/2 FULL 2

- * WOOD OPENING: #14 SMS WITH MIN.
1 1/4" BUCK EMBED
- * MIN. 16 GA. STUD OR 12 GA. STRUCTURAL
STEEL OPENING: #14 TEK WITH FULL EMBED
- * BLOCK/CONCRETE OPENING: 1/4" CONCR.
SCREW WITH MIN. EMBED OF 1 1/4"

Diagram illustrating an optional section of the door assembly. The diagram shows a cross-section of the door frame and the door leaf. Key components labeled include:

- 1: Door leaf
- 3, 4, 5: Door frame components
- 9: Lock cylinder
- 10: Lock bolt
- 14: Lock mechanism
- 18: Lock strike

The diagram also shows a 1/4" shim or continuous wood spacer (minimum 4 1/2" width) installed between the door leaf and the frame. The exterior side is indicated.

SCALE: 1/2 FULL 2

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0416.06
Expiration Date 04/25/2017
Miami Code Product Control

WINDOW (LARGE MISSILE IMPACT)

FEATURE

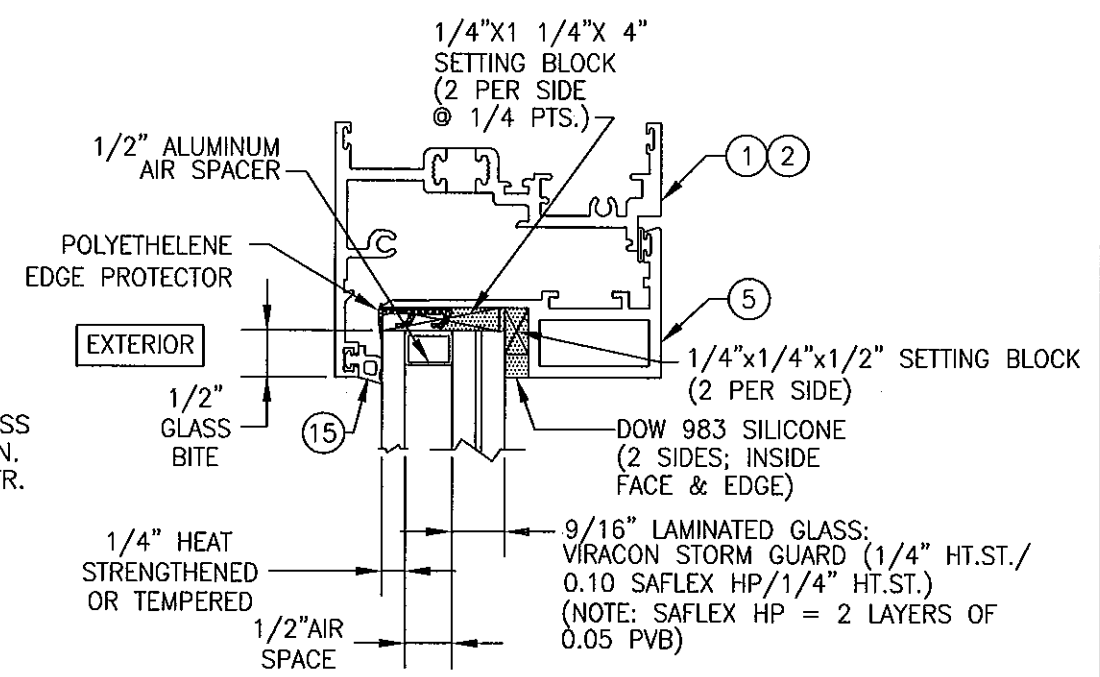
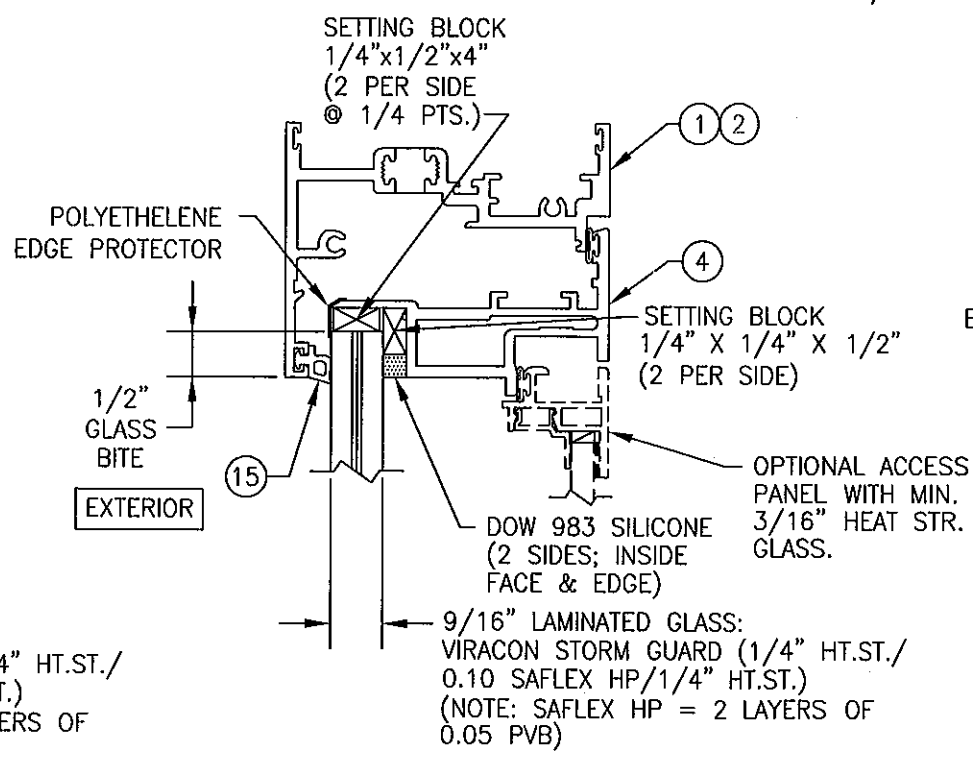
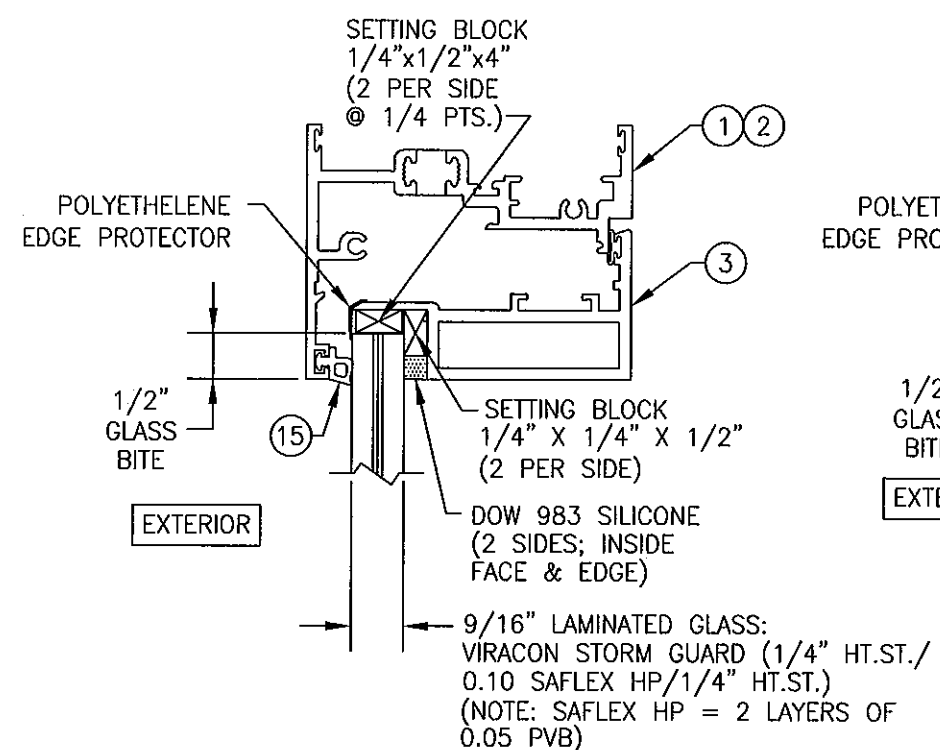
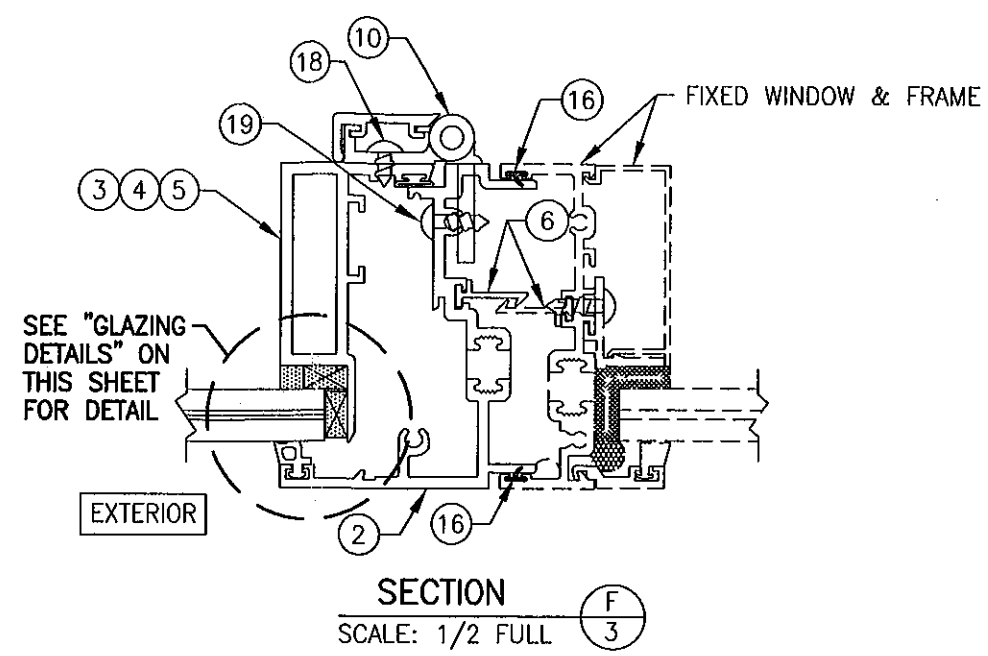
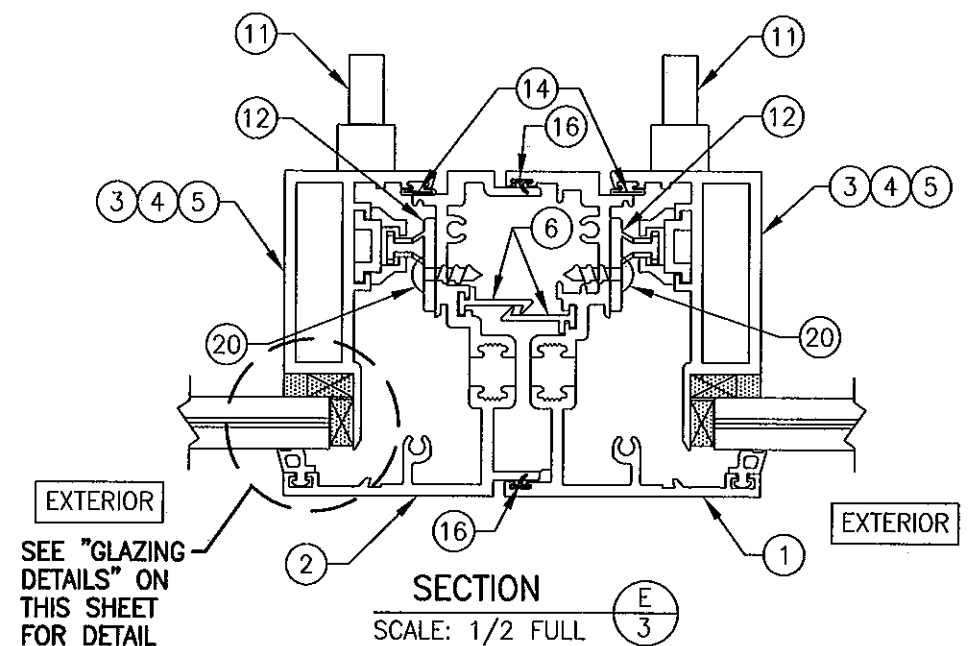
WAUSAU WINDOW & WALL SYSTEMS
7800 INTERNATIONAL DRIVE
WAUSAU, WI. 54401
715-845-2161

DRAWING TITLE
3250 HP INSWING CASE

CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)

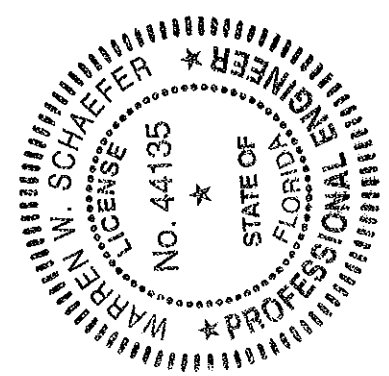
WARREN M. SCHAEFER, P.E.

DRAWING NO.	REV
1086	B
SHEET NO.	
2	OF 4

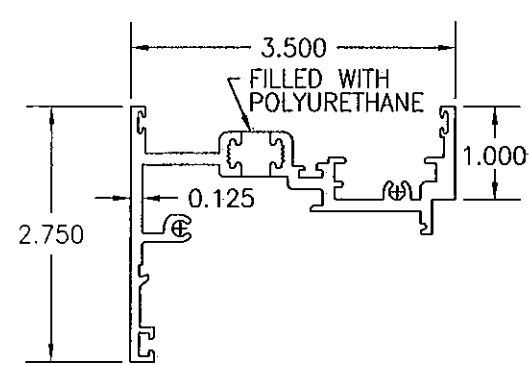


NOTE: WHEN SILL HEIGHT OF WINDOW EXCEEDS 30 FT. ABOVE GRADE, THE EXTERIOR PANE OF I.G. GLASS MUST BE TEMPERED.

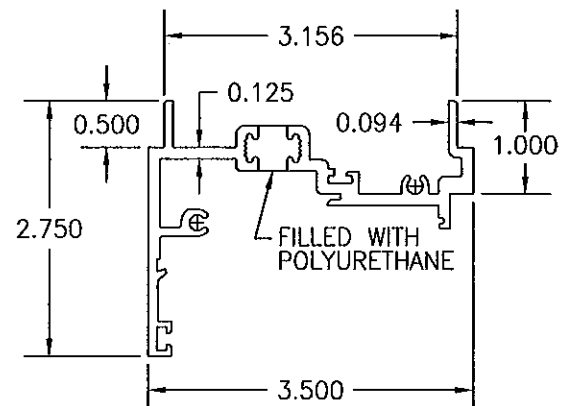
PRODUCT REVISED
as complying with the World's
Building Code
Acceptance No. 12-0416-06
Expiration Date 04/25/2017
By [Signature]
Product Control



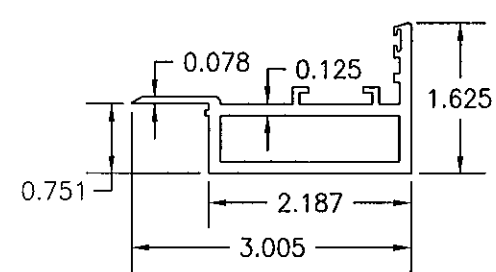
DRAWING TITLE 3250 HP INSWING CASEMENT WINDOW (LARGE MISSILE IMPACT)		DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		PLOT: 1=2	DATE: 01/14/02
MANUFACTURER WAUSAU WINDOW & WALL SYSTEMS		NO.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		REVISION	DESCRIPTION
7800 INTERNATIONAL DRIVE WAUSAU, WI. 54401 715-845-2161		DATE	
CERTIFICATION [Signature]		BY	
DRAWING NO. 1086		REV.	B
SHEET NO. 3 OF 4			



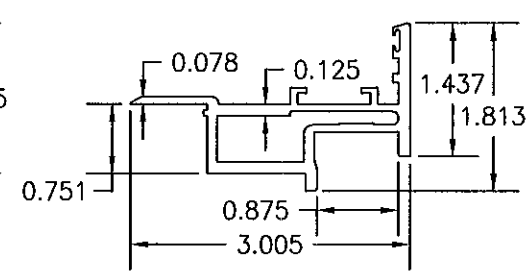
① MAIN FRAME JAMB



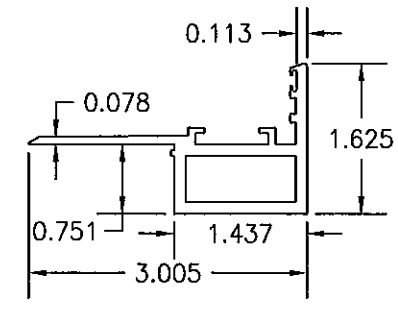
② MULLION FRAME JAMB



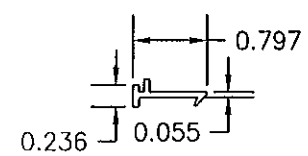
③ SASH



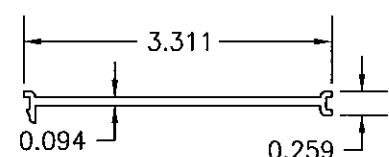
④ SASH



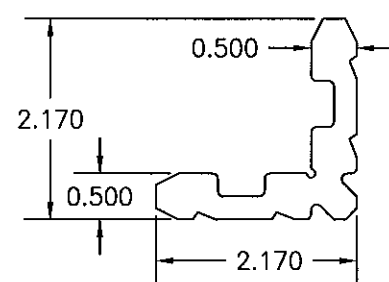
⑤ SASH



⑥ EXPANSION CLIP 18" LONG

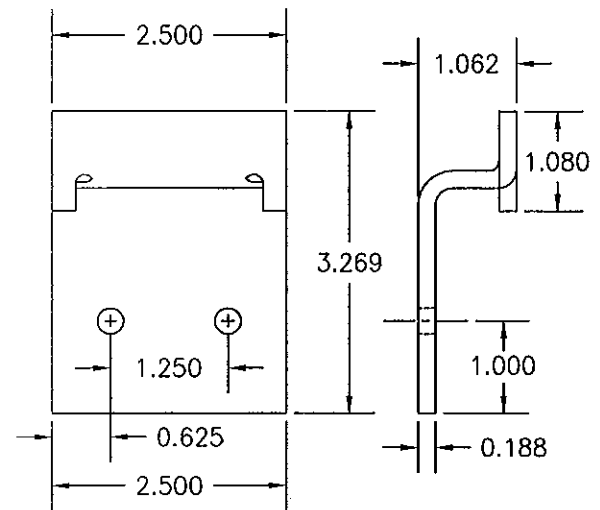


⑨ CAULK BACKER

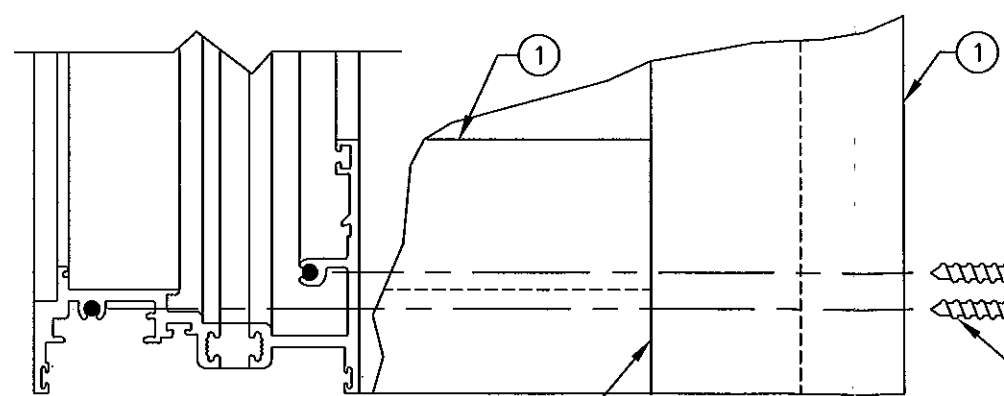


②①C ②①B ②①A CORNER KEY

21A = 1.94"
21B = 0.94"
21C = 1.19"



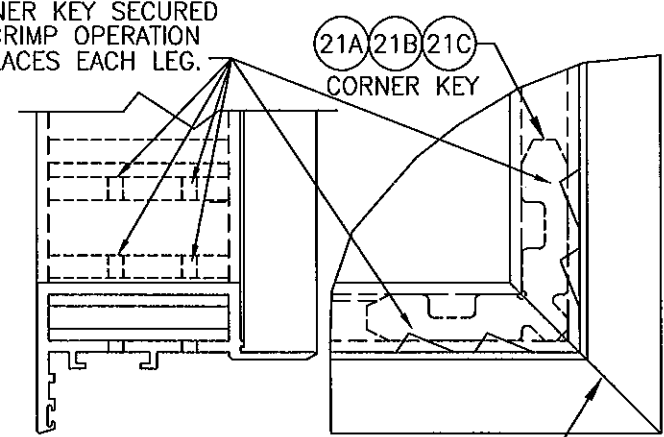
⑦ SLIDE-IN ANCHOR



SCHNEE-MOREHEAD SEALANT #SM5504
AT EXTERIOR PORTION OF JOINT
BETWEEN FRAME MEMBERS.

FRAME CORNER DETAIL
SCALE: 1/2 FULL, OUTSIDE VIEW

CORNER KEY SECURED
BY CRIMP OPERATION
4 PLACES EACH LEG.



SASH CORNER DETAIL
SCALE: 1/2 FULL, OUTSIDE VIEW

SCHNEE-MOREHEAD SEALANT #SM5504
AT EXTERIOR PORTION OF JOINT
BETWEEN SASH MEMBERS.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0416-06
Expiration Date 04/30/2017
By: [Signature]
Miami Dade Product Control

ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	313058	MAIN FRAME JAMB	6063-T6 ALUMINUM
2	313049	MULLION FRAME JAMB (MALE)	6063-T6 ALUMINUM
3	313045	SASH (USED WITH GLAZING OPTION 1)	6063-T6 ALUMINUM
4	313043	SASH (USED WITH GLAZING OPTION 2)	6063-T6 ALUMINUM
5	313041	SASH (USED WITH GLAZING OPTION 3)	6063-T6 ALUMINUM
6	907290	EXPANSION CLIP 18" LONG AT MULL MDSPAN	6063-T6 ALUMINUM
7	134790	SLIDE-IN ANCHOR	7 GA. ZINC PLATED STEEL
8	189582	WEEP HOLE BAFFLE	6063-T6 ALUMINUM
9	445	CAULK BACKER	PVC (FULL LENGTH OF JAMB)
HARDWARE			
10	101594	BUTT HINGE	6063-T6 ALUMINUM
11	106623	HANDLE AS REQ'D TO OPERATE LOCK SYSTEM	ALUMINUM
12	107110	3-POINT LOCK/STRIKE PACKAGE	MELRON; 304 S.S.
13	3V 100203	LIMIT OPENING DEVICE	ANDERBERG/FA-220SS 18-8 S.S.
SEALS & SEALANTS			
14	9989	BULB GASKET	ULTRA FAB; THERMO PLASTIC
15	6676	SOLID GLAZING GASKET	TREMCO; SILICONE
16	9680	WEATHER STRIP	CLIM-TECH.; RIGID PVC ALCRYN
FASTENERS			
17	-	#6 X 3/8" S.S. PH SMS	1 PER WEEP HOLE BAFFLE
18	-	#10-32 X 3/8" S.S. PH SCREW	3 PER HINGE INTO SASH
19	-	#10-32 X 5/8" S.S. PH SCREW	3 PER HINGE THROUGH JAMB
20	-	#10-32 X 5/8" S.S. PH SCREW	2 PER STRIKE INTO JAMB
21A	188411	SASH CORNER KEY (USE WITH SASH ITEM 3)	6063-T6 ALUMINUM
21B	188318	SASH CORNER KEY (USE WITH SASH ITEM 4)	6063-T6 ALUMINUM
21C	189192	SASH CORNER KEY (USE WITH SASH ITEM 5)	6063-T6 ALUMINUM
22	-	#10-32 X 3/8" S.S. PH SCREW	2 PER LIMIT DEVICE INTO FRAME
23	-	#10-32 X 5/8" S.S. PH SCREW	2 PER LIMIT DEVICE INTO SASH

DRAWN BY: J.G.F.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 01/14/02	
DATE	BY	REVISION DESCRIPTION	NO.
<p>DRAWING TITLE: 3250 HP INSWING CASEMENT WINDOW (LARGE MISSILE IMPACT)</p> <p>MANUFACTURER: WAUSAU WINDOW & WALL SYSTEMS 7800 INTERNATIONAL DRIVE WAUSAU, WI. 54401 715-845-2161</p> <p>CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424</p> <p>CERTIFICATION: JUN 05 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135</p> <p>DRAWING NO. 1086 SHEET NO. 4 OF 4</p>			